



Caltrans Division of Research,
Innovation and System Information

Research Results

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2014 Transportation Asset Management (TAM) Conference and Training on Implementation Strategies, TPF-5(275)

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Sharing Transportation Asset Management Resources and Ideas

The exchange of asset management knowledge and expertise among transportation agencies across the country makes better use of limited resources

WHAT WAS THE NEED?

Transportation asset management involves maintaining, upgrading, and operating transportation assets throughout their lifecycle to maximize their benefits. To address the changes in today's transportation environment, new technology advances, and the impact of climate change and extreme weather events, better decision-making based on well-researched information is needed to effectively work with limited resources. Every state possesses transportation assets and generates knowledge on how to manage them. Many state and local transportation organizations are interested in implementing asset management and meeting to share management strategies, systems, and tools. The National Conference on Transportation Asset Management provides a forum for the transportation sector to synthesize, share, and disseminate knowledge and experience so that others can benefit.

WHAT WAS OUR GOAL?

The goal was to provide a forum for communication and information sharing among member states, discuss research needs, and exchange technology and knowledge regarding transportation asset management.



Caltrans provides a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability.

WHAT DID WE DO?

The Transportation Research Board and the American Association of State Highway and Transportation Officials, with support from the Federal Highway Administration's Office of Asset Management, hosted the 10th National Conference on Transportation Asset Management from April 28-30, 2014, in Miami, Florida. The Iowa Department of Transportation served as the TPF sponsoring agency. Participants came from all 50 states and international locations, representing state departments of transportation, metropolitan planning organizations, local transit agencies, universities, and research institutions. The conference provided transportation agencies a forum to identify successful strategies for implementing transportation asset management principles. Experts in their fields described how to apply asset management concepts to pavement and bridge assets and nontraditional assets, such as traffic management systems and data resources, how to integrate data science to improve decision-making, and how to adapt to climate change in terms of its effect on infrastructure.

WHAT WAS THE OUTCOME?

The conference addressed these six major areas:

- Establishing, using, and monitoring asset management plans—Developing plans to meet government mandates and identifying ways to use the plans to improve existing practices
- Implementing within and across organizations—Understanding and overcoming barriers by improving communication within and across organizations to improve decision-making and investment planning

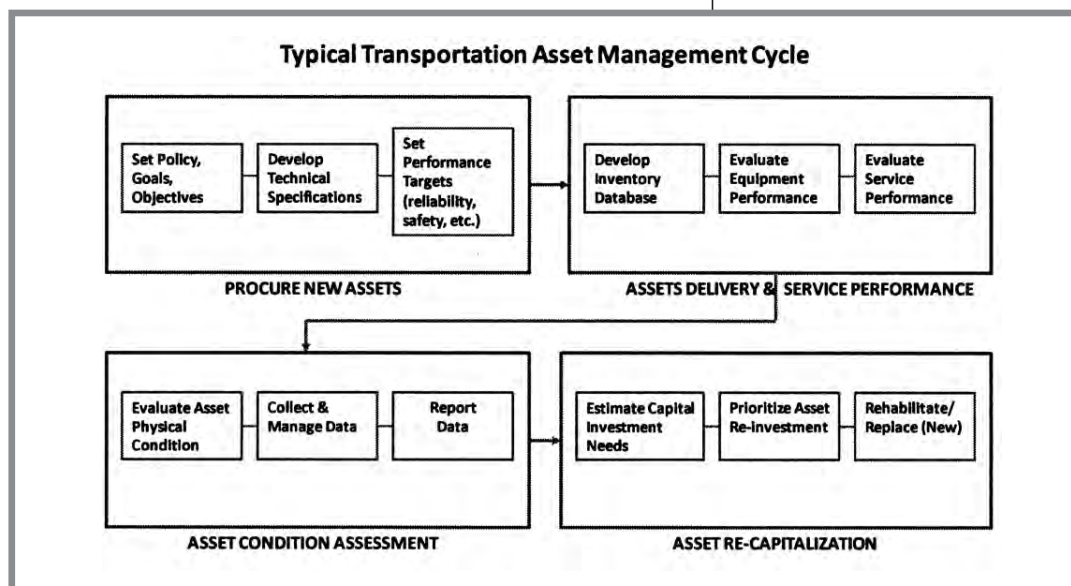
- Tools and technology to assist decision-making—Staying on top of emerging practices, methods, and tools for collecting data, making informed choices, managing risk, and analyzing trade-offs
- Performance measures for asset management—Implementing asset management performance measures
- Transit state of good repair—Analyzing current operations and management standards and sources of financial support for repair initiatives
- Adaption to extreme weather events and climate change—Addressing how climate change and extreme weather events affect system assets

WHAT IS THE BENEFIT?

Today's transportation needs cover a broad array of assets and technologies. Asset management offers transportation professionals the tools, processes, and information to make sound investment decisions and effectively manage these assets to improve longevity. States participating in the transportation asset management consortium can share resources, technology, and ideas and prevent the duplication of efforts. The workshops and conference enable transportation agencies to work in partnership and establish an asset management agenda for the next several years.

LEARN MORE

For information on the 2014 conference and presentations:
<http://onlinepubs.trb.org/onlinepubs/conferences/2014/AssetManagement2014/Program.pdf>



Flow and approach to challenges in each phase of the asset management cycle